

BODYAKO, M.N.; ASTAPCHIK, S.A.

Shifting of the temperature zone of recrystallization as
dependent on the heating rate. Dokl. AN BSSR 6 no.7:432-
434 J1 '62. (MIRA 16:8)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno
akademikom AN BSSR K.V. Gorevym.
(Metallurgy) (Crystallization)

BODYAKO, M.N. [Badziaka, M.M.]; ASTAPCHIK, S.A. [Astapchyk, S.A.]

Theory of recrystallization with continuous heating. Vestsi AN BSSR.
Ser. Fiz.-tekh. nav. no.2:115-119 '63. (MIRA 17:1)

BODYAKO, M.N.; YAROSLEWICH, G.B.; ASTASHEK, S.A.

Effect of the structural state on the integral intensity of
X-ray lines. Dokl. AN BSSR 7 no.11:752-755 11 '63. (MIRA 17:9)

1. Fiziko-tekhnicheskiy institut AN BSSR. Predstavleno akademikom
AN BSSR V.P. Severdenko.

BODYASO, P.N. [Dadashov, M.H.]; YARONOVICH, G.A. [Yaronovich, G.A.];
YARONOVICH, G.A. [Yaronovich, G.A.];

Critical recrystallization during induction heating. Vestsi AN BSSR.
Ser. fiz.-tekhn. nav. no.2:124-129 '64. (MIRA 18:1)

EDWARDS, J. H. *Radicalism in the United States, 1800-1840*. New York: Oxford University Press, 1954. Pp. 312.

Perazine injection was given at 0.5 mg/kg body weight of birds
in 10% corn oil suspension. The first dose was given on day
20-21/10/68. (JH) (P:3)

ACCESSION NR: AP4042729

S/0250/64/008/006/0386/0389

AUTHOR: Bodyako, M. N., Astapchik, S. A.

TITLE: Experimental verification of the thermokinetic equations of recrystallization

SOURCE: AN BSSR. Doklady*, v. 8, no. 6. 1964, 386-389

TOPIC TAGS: recrystallization, thermokinetics, copper, copper recrystallization

ABSTRACT: The authors report the results of an experiment in which they determined the degree of recrystallization (C_p) of pure copper during continuous heating at an accelerated rate as a function of the temperature (T) and the time of complete recrystallization (t). Samples of copper were deformed by 50% and heated at rates of 35, 60, 100, 150, 200 and 300C/sec. to various temperatures, after which the sample was quickly cooled in water. After heating was completed the temperature boundaries and degree of recrystallization were determined by known roentgenographic techniques. As shown in Figs. 1 and 2 of the Enclosure, comparison of these results with theoretical predictions on the basis of

$$C_p = 1 - \exp \left\{ - \frac{AT^n}{v^2} \exp \left(- \frac{4U + W}{RT} \right) \right\} \quad (1)$$

Card 1/4 $C_p = \frac{V_p}{V_0} ; A = \frac{\pi}{3} \alpha \beta^2 \left(\frac{R}{U} \right)^3 ; \beta = \frac{4}{3} \pi \frac{V}{\beta^2} \frac{T_x \alpha \Delta F_0}{h} ; \alpha = \frac{K}{h} ; T_x =$

ACCESSION NR: AP4042729

$$t_{\text{eff}} = \left\{ \frac{-\ln(1 - \varepsilon_p) \Delta T^3}{AT^3} \right\}^{1/4} \exp \left(\frac{U + \frac{1}{4} W}{RT} \right) \quad (2)$$

revealed good agreement. Orig. art. has: 6 formulas and 2 figures.

ASSOCIATION: Fiziko-tekhnicheskii Institut AN BSSR (Institute of Physics and Technology, AN BSSR)

SUBMITTED: 11Oct63

ENCL: 02

SUB CODE: MM, TD

NO REF SOV: 001

OTHER: 006

Card 2/4

ACCESSION NR: AP4042729

ENCLOSURE: 01

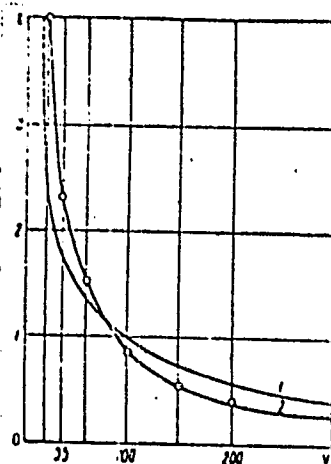


Fig. 1. Dependence of the time of complete recrystallization (seconds) on the speed of heating (°C/second): 1 - theoretical values; 2 - experimental data.

Card 3/4

ACCESSION NR: AP4042729

ENCLOSURE: 02

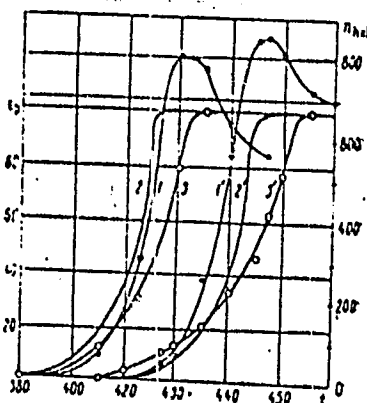


Fig. 2. Dependence of the degree of recrystallization n_{hkl} on temperature: 1, 2, 3- for speeds of heating of 35° C/sec.; 1', 2', 3' - for 200° C/sec.; 2, 2'- theoretical calculations; 3, 3' - experimental data.

Card 4/4

BODYAKO, M.N.; ASTAPCHIK, S.A.

Recrystallization of brass during induction heating. Dokl. AN BSSR
8 no.9:601-603 S '64. (MIRA 17:12)

1. Fiziko-tekhnicheskii institut AN Belorusskoy SSR.

BORISAKOVA, M.M. STAVINSKIY, S.S.

Activation energy of nonisothermal recrystallization. Dokl. AN BSSR
6 nr.1427-30 Ja '65. (MIRA 18:10)

1. Fiziko-tekhnicheskiy institut AN BSSR.

BODYAKO, M.N.; ASTAPCHIK, S.A.

Diagrams of brass recrystallization under the effect of non-isothermal heating. Dokl. AN BSSR 9 no. 4:252-254 Ap '65
(MIRA 19:1)

1. Fiziko-tekhnicheskii institut AN BSSR. Submitted February 25, 1964.

ASTAPCZYK, E., mgr. inz.

An organized post for the investigation of flowmeters, taking into account the static pressure. Pomiary 8 no.5:249 My '62.

ASTAPENKO, D.P., doktor geograf.nauk

Jet streams and flights to the Antarctic. Inform. biul. Sov.
antark. eksp. no.38:9-11 '63. (MIRA 16:7)

1. Sed'maya kontinental'naya ekspeditsiya.
(Antarctic regions--Meteorology in aeronautics)

ASTAPENKO, I.I.

Dynamics of the restoration of functions of the central nervous system in patients following clinical death. Zhur. nevr. i psikh. 64 no.11:1611-1617 '64. (MIRA 18:6

1. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma (zaveduyushchiy - prof. V.A. Nego skiy) AMN SSSR, Moskva.

ASTAFENKO, I. V., KHUMENKOV, I. N.

Peat Industry

Trailing loading machine PPM#3. Torf. prom. 29 no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

ACC NR: AR6028416

SOURCE CODE: UR/0196/66/000/005/BC02/BO02

AUTHOR: Astapenok, M. F.; Ignatovskaya, G. Ya.; Chechurina, Ye, N.

TITLE: Determining the magnetic characteristics of the material of fabricated magnets

SOURCE: Ref. zh. Elektrotehnika i energetika, Abs. 5B8

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR, vyp. 79(139), 1965, 109-117

TOPIC TAGS: permanent magnet material, magnetic property

ABSTRACT: The principal results are reported of an investigation of permanent magnets of various shapes used in electric measuring instruments. To reduce the error in determining B, the search coil encompassing the neutral cross-section of the magnet should be shaped according to this cross-section and should be placed snugly to the magnet. In measuring H, the error appreciably depends on the search-coil shape. Miniature field coils (about 5 x 3 x 2.5-mm) yield best results. In dealing with shaped magnets, pole pieces providing for good magnetic contact with the permeameter yoke are necessary. Most instrument-type fabricated magnets permit determining their properties according to the above method, the error in measuring B and H being 2--5% and the error in measuring magnetic energy product, 5--7%. Testing of several magnets revealed a wide spread (up to 50%) in their magnetic properties which depend on the melt. Six figures, one table. Bibliography of 4 titles. L. Kazarnovskiy [Translation of abstract]

SUB CODE: 09, 11

Card 1/1

UDC: 621.318.2

ACC NR: AR6028416

ASTAPENKO, M.G.

[How to protect oneself against rheumatism] Kak predokhranit' se-
bia ot revmatizma. Moskva, Medgiz, 1954. 34 p. (MLRA 7:11)
(Rheumatism)

ASTAPINKO, M.G., kandidat med. nauk (Moskva)

Clinical aspects and therapy of nonspecific infectious polyarthritis.

Fel'd. i akush. no.11:18-23 N '54.

(MIRA 7:12)

(ARTHRITIS, RHEUMATOID
diag. & ther.)

ASTAPENKO, M.G., kandidat meditsinskikh nauk (Moskva)

Differential diagnosis of rheumatic and infectious (nonrheumatic)
arthritis. Fel'd. i akush. no.12:12-16 D '54. (MLRA 8:2)

(ARTHRITIS, RHEUMATOID, differential diagnosis
from infect. arthritis)

(ARTHRITIS

infectious, differ. diag. from rheum. arthritis)

ASTAPENKO, M.G.

NESTEROV, A.I., professor; ASTAPENKO, M.G., kandidat meditsinskikh nauk
(Moskva)

Treatment of infectious polyarthritis with chrysanol associated
with physical methods. Terap. arkh. 26 no.3:46-53 My-Je '54.

(MLRA 7:9)

1. Deystvitel'nyy chlen AMN SSSR. (for Nesterov)

(GOLD, therapeutic use,

*rheum. arthritis, with physical ther.)

(ARTHRITIS, RHEUMATOID, therapy,

*rheum. arthritis, with gold)

(PHYSICAL THERAPY, in various diseases,

*rheum. arthritis, with gold)

Atapenko, N.G.

Treatment of patients with infectious nonspecific poly-
arthritis by means of cortisone. M. G. Atapenko (2nd I. V.
Stalin Med. Inst., Moscow). ~~Report No. 4, 20-~~
32 (1954).--Cortisone treatment has a therapeutic effect in
early stage infectious polyarthritis; if numerous proliferative
changes have taken place, the reduction of pain is rela-
tively minor without significant change of the affliction of
the joints. Cortisone reduces capillary permeability in
joint spaces down to normal level. It also increases diuresis
and increased elimination of uric acid and chlorides.
Cortisone also has a beneficial effect on the central
nervous system. One of the main effects of cortisone is
beneficial effect on the central nervous system, which is
believed to be the main source of the therapeutic effect of
the drug. G. V. Kozlovskii

ASTAPENKO, M.G., kandidat meditsinskikh nauk; KOGAN, R.P.

Atophan poisoning with fatal outcome. Terap. arkh. 27 no.2:94-96
'55. (MLRA 8:7)

1. Iz kafedry fakul'tetskoy terapii (zav.-deystvitel'nyy chlen AMN
SSSR prof. A.I.Nesterov) II Moskovskogo meditsinskogo instituta
imeni I.V.Stalina i patologoanatomicheskogo otdeleniya 1-y gorod-
skoy klinicheskoy bol'nitsy imeni Pirogovva.

(GINCHOPHEN, poisoning,
fatal)

(POISONING,
cinchophen, fatal)

ASTAPENKO, M.G.

[Infectious nonspecific polyarthriti] Infektsionnyy nespetsificheski
poliartri. Moskva, Medgiz, 1956. 101 p. (MIRA 10:1)
(ARTHRITIS)

ASTAPENKO, M. G.

EXCERPTA MEDICA Sec.3 Vol.11/4 Endocrinology Apr 57

742. ASTAPENKO M.G. Med. Inst. Stalin, Moscow. Cortisone, ACTH and butadione in treatment of infectious polyarthrititis (Russian text) SOVETSK. MED. 1956, 4 (28-34) Tables 1

The effects of cortisone, ACTH and butadione are studied. The results are laid down in 5 conclusions, being: (1) Cortisone, ACTH and butadione are apparently effective drugs in the treatment of infectious non-specific polyarthrititis, particularly in the acute and subacute stages with chiefly exudative symptoms in the joints. (2) The action of cortisone is the most rapid and potent. Under the influence of cortisone there is a marked decrease - and even disappearance - of all pathological symptoms in the joints, even in the most severe and acute cases of polyarthrititis. (3) ACTH brings about a more rapid, though less marked, decrease of the articular symptoms and, moreover, very rarely gives rise to side-effects. This means that it acts 'smoother' than cortisone. (4) The therapeutic effect of either hormone is unstable. (5) The onset of the action of butadione is slow and ceases according to the potency of the action of the hormones, but it differs chiefly by its greater stability.

Boerman - Oss (III, 6*)

ASTAPENKO, M.G., dotsent (Moskva)

Functional state of the higher nervous activity in nonspecific infectious polyarthritis. Klin.med. 34 no.9:34-41 S '56. (MLRA 9:11)

1. In kafedry fakul'tetskoy terapii (zav. deystv. chlen AMN SSSR professor A.I.Nesterov) II Moskovskogo meditsinskogo instituta im. I.V.Stalina.

(ARTHRITIS, compl.

disord. of higher nerv. funct. in unspecific infectious polyarthritis)

(CENTRAL NERVOUS SYSTEM, in various dis.

polyarthritis, unspecific infectious, causing disord. of higher nerv. funct.)

ASTAPENKO, M. G. Doc Med Sci -- (diss) "On the ^{state} condition of
the nervous system in patients with infectious nonspecific
polyarthrititis." Mos, 1958. 18 pp. (Second Mos State Med Inst
in N.I. Pirogov). 250 copies.

(KL, 8-58, 107)

-51-

ASTAPENKO, M.G., dots.; TOKMACHEV, Yu.K.

Effectiveness of combined therapy in infectious nonspecific poly-
arthritis and the significance of the Waaler-Rose reaction in
its evaluation. Sov.med. 23 no.1:90-96 Ja '59. (MIRA 12:2)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen
AMN SSSR prof. A.I. Nesterov) lechebnogo fakul'teta II Moskovskogo
meditsinskogo instituta imeni N.I. Pirogova.

(ARTHRITIS, RHEUMATOID, ther.

combined ther., evalucation of effectiveness by
Waaler-Rose test (Rus))

ASTAPENKO, M.G., doktor med.nauk

Clinical manifestations of side effects of hormones in the clinical management of internal diseases. Sov.med. 23 no.8:68-75 Ag '59.
(MIRA 12:12)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) Ministerstva zdravookhraneniya RSFSR.
(ADRENAL CORTEX HORMONES eff., inj.)
(CORTICOTROPIN eff., inj.)

ASTAPENKO, M.G., doktor med.nauk (Moskva)

Plenary session of the All-Union Committee on Rheumatic Fever
and Joint Diseases and Their Control. Terap.arkh. 31 no.7:
93-95 J1 '59. (MIRA 12:11)

(RHEUMATIC FEVER)

ASTAPENKO, M.G., dotsent (Moskva)

Combined therapy in nonspecific infectious (rheumatoid) polyarthritis.
Klin. med. 37 no.5:76-81 My '59. (MIRA 12:8)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen
AMN SSSR prof. Nesterov) II Moskovskogo meditsinskogo instituta
imeni N.I. Pirogova.

(ARTHRITIS, RHEUMATOID, ther.
combined ther. (Rus))

ASTAPENKO, M.G., doktor meditsinskih nauk (Moskva)

Hormone therapy for infectious nonspecific (rheumatoid) polyarthritia.
Vrach. delo no.8:32-37 Ag '60. (MIRA 13:9)

1. Klinicheskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma Ministerstva zdravookhraneniya RSFSR.
(HORMONE THERAPY) (ARTHRITIS, RHEUMATOID)

ASTAPENKO, M.G., doktor meditsinskikh nauk

All-Russian Conference of Theraputists on Hormone Therapy for
Internal Diseases. Sov. med. 24 no. 10:151-154 0 '60.

(HORMONE THERAPY)

(MIRA 13:12)

ASTAPENKO, M.G., doktor med.nauk; NASONOVA, V.A.

Experience in the use of triamcinolone in the treatment of various collagen diseases. Sov.med. 24 no.12:42-48 D '60. (MIRA 14:3)

1. Iz otdeleniya infektsionnykh artritov (zav. - doktor med.nauk M.G.Astapenko) i otdeleniya pogramichnykh form (zav. - deystvitel'nyy chlen AMN SSSR prof. Ye.M.Tarsev) nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I.Nesterov) Ministerstva zdavookhraneniya RSFSR.

(COLLAGEN DISEASES)

(TRIAMCINOLONE)

ASTAPENKO, M.G. (Moskva)

Ankylosing spondyloarthritis (Bechterev's disease). Fel'd. i akush.
25 no.8:3-7 Ag '60. (MIRA 13:8)

(SPINE--DISEASES)

ASTAPENKO, M.G.

Treatment of infective nonspecific polyarthritiis with prednisone and
prednisolone. Terap. arkh. 32 no. 2:41-47 F '60. (MIRA 14:1)

(ARTHRITIS, RHEUMATOID) (PREGNADIENE)

ASTAPENKO, M.G., prof. (Moskva); GRITSMAN, N.N., kand.med.nauk (Moskva)

Results of the All-Union Rheumatological Conference. Vop.revm.
1 no.2:84-89 Ap-Je '61. (MIRA 16:4)
(RHEUMATIC FEVER—CONGRESSES)

NESTEROV, A.I., prof.; ASTAPENKO, M.G., prof.

Report on the activity of the All-Union Committee for the Control
of Rheumatic Fever (1956 to 1960). Vop.revm. 1 no.3:3-94 J1-S
'61. (MIRA 16:4)

1. Predsedatel' Vsesoyuznogo komiteta po izucheniyu revmatizma -
deystvitel'nyy chlen AMN SSSR (for Nesterov). 2. Sekretar'
Vsesoyuznogo komiteta po izucheniyu revmatizma (for Astapenko).
(RHEUMATIC FEVER)

ASTAPENKO, M.G., doktor med.nauk

Ten years experience with hormone therapy of nonspecific infectious
(rheumatoid) polyarthritis. Sov. med. 25 no.7:3-8 J1 '61.

(MIRA 15:1)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo instituta revmatizma
(dir. - deystvitel'nyy chlen AMN SSSR A.I. Nesterov).
(ARTHRITIS RHEUMATOID) (HORMONE THERAPY)

ASTAPENKO, M.G., prof.

Significance of neural regulation disorders in the pathogenesis of infectious nonspecific (rheumatoid) arthritis. Terap.arkh. 33 no.10:75-81 '61. (MIRA 15:1)

1. Iz otdeleniya infektsionnykh artritov Gosudarstvennogo nauchno-issledovatel'skogo instituta revmatizma (dir. - deystritel'nyy chlen AMN SSSR prof. A.I. Nesterov).
(ARTHRITIS, RHEUMATOID) (NERVOUS SYSTEM—DISEASES)

ASTAPENKO, M.G., prof.; YENIKEYEVA, N.B.

Functional state of the adrenal cortex in infectious nonspecific polyarthrititis and its change under the influence of hormonal therapy. Terap.arkh. no.6:60-67 '62. (MIRA 15:9)

1. Iz otdeleniya infektsionnykh artritov Instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov) AMN SSSR.

(ADRENAL CORTEX) (ARTHRITIS) (HORMONE THERAPY)

ASTAPENKO, M.G., prof.; TROFIKOVA, T.M., 1 and.med.nauk

Compound treatment in infectious nonspecific polyarthrits with
resochin and hormonal preparations. Sov.med. 26 no.2:29-35 F'63.

1. Iz otdeleniya infektartritov (zav. - prof. M.G.Astapenko)
Instituta pevmatizma (dir. -- deystvitel'nyy chlen AMN SSSR A.T.
Nesterova) AMN SSSR.

(ARTHRITIS, RHEUMATOID) (QUINOLINE)
(HORMONE THERAPY)

ASTAPENKO, M.G., prof. ; NASONOVA, V.A., kand. med. nauk

Results of the scientific session of the Scientific Research
Institute of Rheumatic Fever of the Academy of Medical Sciences
of the U.S.S.R. Vop. revm. 3 no.3:85-89 J1-S'63 (MIRA 17:3)

ASTAPENKO, M.G., prof. (Moskva)

Urgent problems as to the treatment of infectious nonspecific
(rheumatoid) polyarthritis. Vop. revm. 2 no.4:58-63 O-D'62
(MIRA 17:5)

NESTEROV, A.I., prof.; ASTAPENKO, M.G., prof.

Recommendations for the planning of research on the problem
"Rheumatic fever and diseases of the joints" for 1963-1964.
Vop. revm. 2 no.4:78-79 O-D*62 (MIRA 17:4)

1. Predsedatel' Vsesoyuznogo antirevmaticheskogo komiteta,
deystvitel'nyy chlen AMN SSSR (for Nesterov). 2. Sekretar'
Vsesoyuznogo antirevmaticheskogo komiteta (for Astapenko).

ASTASSENKO, M.G., red.

[Abstracts of Reports of the 15th All-Union Congress
of Theraputists] Tezisy dokladov. Moskva, Medgiz,
1962. 194 p. (MIRA 18:1)

1. Vsesoyuznyy s'yezd terapevtov. 15th.

ASTAPENKO, M.G., prof.

Problems of the clinical aspects and treatment of rheumatic diseases at the Fifth European Rheumatological Congress in Stockholm. Sov. med. 25 nov. 1974. 147 pp. 64.

(MIRA 17:12)

ABRAMOV, M.G., doktor med. nauk; ALEKSEYEV, G.A., prof.; ASTAPENKO, M.G., prof.; BUREYKO, V.M., dots.; VARSHAMOV, L.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIRSKIY, I.A., prof.; KUSHKIY, R.O., doktor med. nauk; LIBERMAN, B.I.; LIKHTSIYER, I.B., prof.; LUZHETSKAYA, T.A., kand. med. nauk; MOISEYEV, S.G., prof.; NASONOVA, V.A., dots.; NESGOVOROVA, L.I.; POROSHINA, I.I.; PREOBRAZHENSKIY, A.P., dots.; RADVIL', O.S., prof.; RATNER, M.Ya., doktor med. nauk; RASHEVSKAYA, A.M., prof.; SEMENDYAYEVA, M.N., kand. med. nauk; SIGIDIN, Ya.S., kand. med. nauk; ARTEM'YEV, S.G., red.

[Therapeutist's handbook] Spravochnik terapevta. Izd.2., ispr. i dop. Moskva, Meditsina, 1965. 863 p.

(MIRA 18:6)

1. Deystvitel'nyy chlen AMN SSSR (for Kassirskiy).

TAREYEV, Ye.M., prof., med. red.; ANGEVIN, V.N., kand. med.
nauk, red.; ASTAPENKO, M.G., prof., red.; SIGIDIN, Ya.A.,
kand. med. nauk, red.; SIPUKOV, A.I., prof., red.;
CHURILOVA, A.I., red.

[Current problems of rheumatology] Sovremennye problemy
revmatologii. Moscow: Meditsina, 1965. 243 p.

(MIRA 18:12)

1. Akademiya meditsinskikh nauk SSSR, Moscow. 2. Deyatelnost' nauchnykh i issledovatel'skikh institutov AN SSSR (for Tareyev).

1. ASTAPENKA, P.D.

2. USSR (600)

"The Foehn Phenomenon in the Balkans."
Voprosy geografii, Collection 7, 1948
(151-157)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551, 30 Oct 52

¹⁾
ASTAPENKO, P., inzhener-podpolkovnik, kandidat geograficheskikh nauk.

Visual aids in the study of meteorology. Vest.Vozd.Fl. 34 no.10:
40-46 0 151.

(MIRA 8:3)

(Meteorology--Study and teaching)(Visual education)

AGTAFENKO, I. D.

"The Synoptic Method of Long-Range Weather Forecasting," Meteorol. i gidrologiya, No 9, 1953, pp 59-61

The author critically analyzes the positions held in S. T. Fagava's articles on the same subject. The positions of the V. P. Mul'tanovskiy school on natural synoptic periods, seasons, and regions possess small prognostic value, and the position on the existence of reference (reper) processes has not been demonstrated. It is risky to identify the long-range weather forecast with the forecast of circulatory mechanisms for the territory of natural synoptic regions. There are no bases for the categorical assertion that the correctness of the procedural principles of investigations of the Mul'tanovskiy school has been confirmed in practice. The forecasts possess little justifiability; quantitative criteria governing the sureness of these forecasts are absent. The principles of the method are not free from the influence of metaphysical, subjective-idealistic views upon the nature of the atmospheric processes. Needed is a more attentive study of the idea of the compilation of long-range weather forecasts on the basis of the establishment of existing forms of circulation in the atmosphere and of laws governing their formation and transformation (G. Ya. Vangengeym, A. A. Girs), undeservedly ignored by the adherents of the Mul'tanovskiy school. (RZhGeol, No 5, 1954)

SO: Sum No. 568, 6 Jul 55

MATVEYEV, L.T.; SMIRNOV, P.I.; ASTAPENKO, P.D.; IGNAT'YEV, N.I.,
red.; SRIBNIS, N.V., tekhn. red.

[Principles of aviation meteorology] Osnovy aviatsionnoi
meteorologii; odobreno Glavnym Shtabom Voenno-Vozdushnykh
Sil v kachestve uchebnogo posobiia dlia kursantov aviatsion-
nykh uchilishch i shkol VVS Sovetskoi Armii. Moskva, Voen-
izdat, 1955. 334 p. (MIRA 16:11)
(Meteorology in aeronautics)

ASTAPENKO, P.D.

ASTAPENKO, P.D., kand.geograficheskikh nauk; BURTSEV, A.I., kand.fiziko-matematicheskikh nauk; GUROV, V.P., kand.fiziko-matematicheskikh nauk; ZVEREV, A.S., kand.fiziko-matematicheskikh nauk; ZUBYAN, B.D., doktor geograficheskikh nauk; MININA, L.S., kand.geograficheskikh nauk; MOROZKIN, A.A., inzhener-meteorolog; RUPPERT, L.L., kand.geograficheskikh nauk; SERGUEEV, B.M., inzhener-meteorolog; SAMOYLOV, A.I., kand.fiziko-matematicheskikh nauk; TURKETTI, Z.L., kand.geograficheskikh nauk; CHERNOVA, V.F., starshiy nauchnyy sotrudnik; CHISTYAKOV, A.D., kand.fiziko-matematicheskikh nauk; POGOSYAN, Kh.P., prof., red.; YASNOGORODSKAYA, M.M., red.; BRAYNINA, M.P., tekhn.red.

[Synoptic study atlas] Uchebnyi sinopticheskii atlas. Leningrad, Gidrometeor. izd-vo. Pt.2. (Sost. P.D.Astapenko i dr.) 1957. 90 fold. maps (in portfolio) — — — [Practical recommendations and assignments for students using the "Synoptic study atlas" Metodicheskie rekomendatsii i zadaniia dlia studentov k "Uchebnomu sinopticheskomu atlasu," chast' 2. Sost. A.S.Zverev. 1957. 87 p. (MIRA 11:3)

1. Tsentral'nyy institut prognozov (for Chernova)
(Climatology--Charts, diagrams, etc.)

ASTAPENKO, P.D., kand.geograf.nauk

Characteristics of the position of tropopause over Antarctica in
1958. Inform.biul.Sov.antark.eksp. no.12:24-28 '59.
(MIRA 13:6)

1. Leningradskiy gidrometeorologicheskij institut.
(Antarctic regions--Atmosphere)

Volley dokladov (Theses of Reports at the Scientific Conference on Meteorological Problems in Agriculture, Moscow, 1959) Moscow, Otdel'meteorologii (Otdel'met) 1959, 87 p., 1,000 copies printed.

Ed.: U.C. Fleck; Revd. Ed.: J.M. Zarth.

purpose: the publication is intended for meteorologists, particularly for those interested in the climatology of Antarctica.

COMMENTARY: This book contains summaries of thirty-five reports presented at the Scientific Conference on Meteorological Problems in Antarctica, held in Moscow, October 20 to 22, 1959. The summaries are arranged in four groups: (1) general problems of the geography of Antarctica; (2) atmospheric circulation; (3) radiation elements; (4) heat balance, climate and special features of individual elements; (5) methods of observation and measurement. No personalities are mentioned. There are no references.

FILE IN SCHOOL, SOCIAL, STUDENT, PRACTICES, TESTS, TESTS, TESTS

Professor V. A. (Candidate of Physics and Mathematics, "Scientific" Institute for Forecasting (Central Forecasting Institute)) and Ye. A. (Candidate of Sciences or Doctoral Sciences, Glazov University) - Science and Technology Administration at the Northern Sea Route}} Main Scientific Structures of Eastern Siberia

ROBERT J. JAMES, (Immediate or Geographical Distances, Institute Geographic AS USNS), and A. T. Bickel (Ocean (Clammy univ-
lately Boreago northco pill (Main Administration of the Southern Sea Route))
Antarctic Icecap, its Thickness and the Belief of Underlying Rock

Part II. Administrative Matters

[illegible]

9

9
1956-1977
Special Features of Summer Circulation and Weather in the Antarctic Waters According to Observations from the "Ob" in
M.V. Lomonosov (Moscow State University
Department of Geographical Sciences, Moscow State University
Professor, Doctor of Geographical Sciences, M.V. Lomonosov)
5-11

Official, D.D. [Candidate of Geographical Sciences, "Central"oy Institut
Prognozov (Central Forecasting Institute)] Atmospheric Circulation in
Antarctica and the Southern Hemisphere

11

Polatnikov, Ye. I. [Main Administration of the Northern Sea Route]
 15 Years in Polar Aviation

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16
Temperature at High Altitudes and of Atmospheric Circulation in Antarc-

Research Institute (Hydro-Meteorological Research Institute of Central Asia))
 problems of Study of Primary Circulation by Means of Mesoperturbance
 characteristics

Special Systems of the Regeneration of Cyclones on the Antarctic

ASTAPENKO, P.D., kand. geograf. nauk

Cyclonic activity at high latitudes of the Southern Hemisphere in
winter. Inform. biul. Sov. antark. eksp. no.5:26-31 '59.
(MIRA 12:10)

1. Leningradskiy gidrometeorolog. institut.
(Antarctic regions--Cyclones)

ASTAPENKO, P.D., kand.geograf.nauk

Vertical structure of atmosphere in Antarctica. Inform.biol. Sov.
antar'.oksp. no.6:23-26 '50. (MIR. 12:12)

1. Leningradskiy gidrometeorologicheskii institut.
(Antarctic regions--Atmosphere)

ASTAPENKO, P.D.

Mysterious light. Inform. biul. Sov. antark. eksp. no.8:41-42;
'59. (MIRA 13:3)
(Antarctic regions--Atmospheric electricity)

3 (7)

AUTHOR:

Astapenko, P. D.

TITLE:

Atmospheric Fronts in the West Antarctic

SOV/50-59-9-4/16

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 9, PP 24 - 29 (USSR)

ABSTRACT:

On the basis of actual data, some characteristics of the analysis of atmospheric fronts in the Antarctic found during the practical work at the International Weather Center in Little America in autumn and winter 1958 are pointed out here. In the author's opinion, the fact of the existence of such fronts cannot be contested although the character of their effect on the weather on the earth's surface in the coastal areas is very different from that in the inner continental areas. Already in March 1958, the study of the weather charts at the International Weather Center showed that these charts insufficiently represented the course of development of atmospheric processes. The greatest difficulty in the synoptic analysis is the non-representativeness of the majority of data entered on the weather charts. This particularly applies to the temperature field near the ground and to cloud observations. This sharp discrepancy is explained by some examples. On the basis of the sections shown in figures 1 and 2, it is shown that it is

Card 1/2

Atmospheric Fronts in the West Antarctic

SOV/50-59-9-4/16

evident that not only atmospheric fronts exist on the coast and on the continent of the West Antarctic in the range of 1500 m altitudes directly influencing the weather change, but that these fronts can be successfully pursued by means of time vertical sections. The chart analysis in the Antarctic must, by all means, be completed and corrected by the analysis of sections. It is pointed out that spatial vertical sections through the atmosphere would render the problem of the analysis of processes in the Antarctic considerably less difficult. But unfortunately the density of the network of aerological stations in this geographical area is insufficient for building up such sections, even in selected directions. This is explained by an example from working experience. Finally, it is pointed out that the explanations given refer to the coastal areas, and must by no means be applied to weather changes in the inner high-mountain regions of the continent, the relative altitude of which is not high (2800 m). There are 2 figures.

Card 2/2

ASTAPENKO, P.D.

"Smoke" in the Grevasse Junction on the Ross Shelf Ice in the vicinity
of Little America. Inform. bul. Sov. antark. eksp. no.9:51-54 '59
(Ross Shelf Ice) (MIRA 13:3)

ASTAPENKO, P.D.

Unusual color of auroras in Antarctica. Inform. biul. Sov. antark.
eksp. no.10:39-40 '59 (MIR 13:3)
(Antarctic regions--Auroras)

ASTAPENKO, P.D.

Visiting with the polar explorers of New Zealand in Antarctica.
Inform.biul.Sov.antark.eksp. no.11:41-45 '59. (MIRA 13:5)
(Ross Island region--Geophysical research)
(Hallett region, Antarctica--Geophysical research)

ASTAPENKO, P.D., kand.geograficheskikh nauk

Nature of some weather changes over the Antarctic plateau
in winter. Inform.biul.Sov.antark.eksp. no.13:12-16 '59.

(Antarctic regions---Meteorology) (MIRA 13:8)

ASTAPENKO, P.; AL'T, Zh. [Alt, J.]; ROPAR, N.; BUGAYEV, V.A., otv.red.;
KAPITSA, M.P., red.; MAKUNI, Ye.V., tekhn.red.

[Some aspects of atmospheric circulation in Antarctica in 1958]
Nekotorye voprosy tsirkulatsii atmosfery v Antarktike v 1958 g.
Moskva, Izd-vo Akad.nauk SSSR, 1960. 128 p. (II randel programmy
MGO (meteorologii), no.2). (MIRA 13:12)

1. Leningrad Hydrometeorological Institute, U.S.S.R. (for Asta-
penko). 2. Météorologie National, France (for Al't). 3. U.S.
Weather Bureau, Washington (for Ropar).
(Antarctica--Atmosphere)

ASTAPENKO, P.D.; ZVEREV, A.S., doktor geograf.nauk, otv.red.; KAPITSA,
M.P., red.; POLYAKOVA, T.V., tekhn.red.

[Atmospheric processes in high latitudes of the Southern Hemisphere]
Atmosfernye protsessy v vysokikh shirotakh iuzhnogo polushariia.
Moskva; Izd-vo Akad.nauk SSSR, 1960. 281 p. (II razdel programmy
MGG (meteorologiya), no.3) (MIRA 13:12)
(Antarctica--Atmosphere)

3.5000

S/050/60/000/05/04/020
B007/B017

AUTHOR: Astapenko, P. D.

TITLE: On the Atmospheric Fronts Over Western Antarctica

PERIODICAL: Meteorologiya i gidrologiya, 1960, No. 5, pp. 23-26

TEXT: In this paper the processes observed over Western Antarctica from July 25 to 31, 1958 are briefly described. Fig. 1 shows the position of the fronts in 2 varieties in a vertical section: According to a simplified model scheme, and according to the actual irregular temperature change at all heights. In the same section 2 varieties for the position of the tropopause are given for the last three observational periods: the position corresponding to the actual tropopause height and the position of the "second" tropopause after the cold front has passed. Although in those days no special weather phenomena were observed at most of the Antarctic stations and no extreme values of the meteorological elements were recorded, this period deserves special interest. During the last week of July, 1958 two phenomena were observed in the development of synoptic processes. A cyclone with a distinct warm sector penetrated into

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On the Atmospheric Fronts Over Western
Antarctica

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the area of the South Pole. It came from the area over the Palmer (Pal'mer) peninsula and not from the Ross Sea. Secondly, two typical fronts - a warm and a cold one - which were distinctly marked from the earth's surface up to the upper troposphere passed over Amundsen station. Hence, the surface-near depression in Western Antarctica was shifted into a direction opposite to the usual direction: not from the Ross Sea to the Weddell Sea but from the eastern part of the Weddell Sea over the plateau on the Pole to Victoria Land and the western part of the Ross Sea. In conclusion, some phenomena of the development of synoptic processes over Western Antarctica are described. There is 1 figure. ✓

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3.5/40 (1041)

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S/169/61/000/009/028/058
D228/D304

AUTHOR:

Astapenko, P. D.

TITLE:

Jet streams over Western Antarctica at the time of meridional and zonal forms of circulation

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 33, abstract 9B255 (V sb. Probl. Arktiki i Antarktiki, no. 6, L., Morsk. transport, 1960, 17-26)

TEXT: Data on jet streams over Western Antarctica's stations in 1958 are generalized. Jet streams in the upper troposphere are first examined. Above the S. Pole they were observed 5 times during zonal circulation and 15 times during meridional circulation. The passage of a cyclone or depression above the polar plateau corresponds to each instance of a tropospheric jet-stream over the pole. At Little America, tropospheric jet-streams were on the whole observed also during meridional circulation, being 2.5 times more frequent than over the S. Pole. The appearance of jet streams was always accompanied by the passage of near-surface cyclones

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Jet streams over...

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or depressions. Analogous conclusions are also drawn for other stations in Western Antarctica. Tables for the frequency of tropospheric jet-streams at individual stations and at several stations together are given. It is noted that the altitude of the axis of a tropospheric jet-stream is subjected to seasonal fluctuations in full accordance with the variations in the height of the tropopause. The most typical thickness of tropospheric jet-streams is 3 km. Jet streams in the stratosphere are then examined; these are directly related to seasonal changes in the stratosphere's temperature field which is determined by the yearly course of the radiation conditions. Stratospheric jet-streams arise in the autumn--in March--and in winter their intensity grows, reaching a maximum in the spring--in October. Their general frequency increases away from the pole towards the northern stations of the Antarctic seaboard in the Indian Ocean's eastern part, where their duration is also at a maximum. Tables are given for the frequency of stratospheric jet-streams. Their prevailing direction is westerly. [Abstracter's note: Complete translation.]

Card 2/2

S/004/60/000/008/004/000
A105/A026

AUTHOR: Astapenko, P.D., Candidate of Geographical Sciences

TITLE: Downfall of the Windy Barrier

PERIODICAL: Znaniye-Sila, 1960, No. 8, pp. 5-6

TEXT: Monstrous winds, blizzards, constancy of winds blowing without apparent relation to changes in atmospheric pressure, unexplainable by normal synoptic transitions from clear weather to cloudiness, seemed to be enigmatic to the first Antarctic explorers. Many hypotheses have been put up, one of them being the "wind barrier" around the Antarctic isolated from the world. Another hypothesis, put down by Simpson, referred to "innercontinental pressure waves" diffused over the Antarctic irrespective of cyclones and anticyclones. An analysis of weather charts made during the IGY showed that a "wind barrier" does not exist and that cyclones from the southern coast of Australia and Africa shift freely to the South Pole. The atmosphere over the Antarctic is an inseparable part of the southern hemisphere. But in spite of this, there are some peculiarities. Air is flowing from the poles, changing its direction under the rotation of the earth. As a result, winds are arising which do not always blow in con-

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Downfall of the Windy Barrier

S/004/60/000/008/004/005
A105/A026

formity with prevailing distribution of atmospheric pressure. The streaming in the stratosphere over the Antarctic reaches sometimes velocities of 500 km/h. There is no doubt that the influence of the Arctic and Antarctic upon the atmospheric circulation over the whole globe is immense and that, having done away with old riddles regarding the South Pole regions, mankind has to solve new problems. ✓

Card 2/2

ASTAPENKO, P.D., kand.geograf.nauk

Principal forms of atmospheric circulation in Antarctica.
Inform.biul.Sov.antark.eksp. no.14:14-18 '60.

(MIRA 13:6)

1. Leningradskiy gidrometeorologicheskoy institut.
(Antarctic regions--Winds)

ASTAPENKO, P.D.

Scientific conference on problems of Antarctic meteorology. Inform.
biul. Sov. antark. eksp. no.16:32-33 '60. (MIRA 13:12)
(Antarctic regions—Congresses)

CHERNOV, Yu.S.; ASTAPENKO, P.D.

Orographic clouds. Inform. biul. Sov. antark. eksp. no.19:51-54
'60. (MIRA 13:9)
(Antarctic regions—Cloud physics)

ASTAPENKO, P.D., kand.geograf.nauk

Weather phenomena reducing visibility in Antarctica and the possibility
of predicting them. Inform. biul. Sov. antark. eksp. no.20:22-25
'60. (MIRA 13:9)

1. Leningradskiy gidrometeorologicheskiy institut.
(Antarctic regions--Visibility) (Weather forecasting)

SHULEYKIN, V.V., akademik; KATS, A.L., kand.geograf.nauk; POGOSEAN, Kh.P.,
prof.; ASTAPENKO, P.D., kand.geograf.nauk

World's weather. Znan.sila 35 no.8:4-6 Ag '60.

(MIRA 13:9)

(Meteorology)

ASTAPENKO, P.D., kand.geograf.nauk; KUZ'MIN, B.V., inzh.-meteorolog

Some characteristics of summer changes of weather on the South
Polar Plateau. Inform. biul. Sob. antark. eksp. no.25:28-31 '61.,
(MIRA 14:5)

1. Leningradskiy gidrometeorologicheskiy institut.
(Antarctic regions--Meteorology)

S/169/62/000/012/050/095
D228/D307

3.5000

AUTHOR: Astapenko, P.D.

TITLE: Some questions of the atmospheric circulation in the vicinity of the South Pole

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 41, abstract 123281 (In collection: Materialy po Arkktike i Antarktike, no. 1, L., 1961, 39-40)

TEXT: The decisive role of fronts in the formation of Antarctic weather is established, though in inland areas they are not found near the ground. The cyclonic activity on fronts lasts throughout the year. The following branches of the Antarctic front are distinguished: the East Pacific Ocean branch, the Weddell Sea area, the Atlantic and Indian Ocean branch, and the Indian and Pacific branch. There is no "wind barrier" around Antarctica. Atmospheric processes are divided into types on the basis of the relation between jet streams and the main circulation forms. In Antarctica the annual range of variations of the temperature in the free atmos-

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Some questions ...

S/169/62/000/012/050/095
D228/D307

phere and of the height and temperature of the tropopause is greater than in the Arctic. The energy of circulation is also greater here, therefore it is possible to speak of the transfer of energy from one hemisphere to the other. The regularities established have allowed some general principles to be formulated for forecasting the weather and for forecasting individual meteorological elements and phenomena. ✓B

[Abstracter's note: Complete translation]

Card 2/2

ASTAPENKO, P.D.

Cyclonic activity in Antarctica. Izv. Vses. geogr. ob-va 93 no.1:
56-63 Ja-F '61. (MIRA 14:2)
(Antarctic regions--Cyclones)

ASTAPENKO, P.D.; HEL'SKAYA, N.N.; BUSHUK, V.I.; BUSHUK, O.A.; GUROV, V.P.;
ZUBYAN, G.D.; KATS, A.L.; MININA, L.S.; MOROZKIN, A.A.; PAVLOVSKAYA,
A.A.; FOGCSYAN, Kh.P.; SAMOYLOV, A.I.; SMIRNOV, P.I.; TARAKANOV,
G.G.; TURKETTI, Z.L.; CHERNOVA, V.F.; CHISTYAKOV, A.D.

[Synoptic atlas for schools] Uchebnyi sinopticheski atlas. Pod
red. Kh.P.Pogosiana. 3, perer. i dop. izd. Leningrad, Gidrometeo-
izdat, 1962. 217 gold.col.maps. (MIRA 16:3)

___[Assignments for students] Zadaniia dlia uchashchikhsia. Pod
red. Kh.P.Pogosiana. 138 p. ___[Methodological instructions and
recommendations for teachers] Metodicheskie ukazaniia i rekmen-
datsii dlia prepodavatelei. Pod red. Kh.P.Pogosiana. 73 p.
(Meteorology—Charts, diagrams, etc.)

ASTAPENKO, P.

Mirages in the Antarctic. Inform. biul. Sov. antark. eksp.
no.36:49 '62. (MIRA 16:4)

(Antarctic regions--Mirages)

ASTAFENKO, Pavel Dmitriyevich, doktor geogr. nauk; BLIZKOVA,
G.Ya., red.

[Journey to the island of the four volcanoes] Puteshe-
stvie k ostrovu chetyrekh vulkanov. Moskva, Gidro-
meteoizdat, 1964. 155 p. (MIRA 18:2)

DOLGANOV, Leonid Vasil'yevich; ASTAPENKO, F.D., doktor geogr.
nauk, red.; BIKULOVA, R.I., red.

[Aerometeorological studies of the Antarctic in connection
with the program of the IGY] Aerometeorologicheskaya izu-
chenost' Antarktiki v svyazi s provedeniem MGG. Leningrad,
Gidrometeoizdat, 1964. 63 p. (MIRA 18:3)

ASTAPENKO, P.D., doktor geograf.nauk; SAVONICHEV, V.S., diplomant

Role of the Antarctic in the energy balance of the earth's
atmosphere. Inform.blul. Sev. antark.eksp. no.50:8-12 '64.

(MIRA 18:5)

1. Leningradskiy gidrometecrologicheskij institut.

ASTAFENKO, P.G.

Repeating the studied course in biology. Biol.v shkole
no.6:38-41 M-D '59. (MIRA 13:3)

1. Zaveduyushchiy uchebnoy chast'yu semiletney shkoly
No.28 g.Kerchi.
(Biology--Study and teaching)

ASTAPENKO, P.G., uchitel'

Model for inspiration and expiration demonstrations. Biol. v shkole
no. 6: 80-81 N-D '60. (MIRA 14:1)

1. Vos'miletnyaya shkola No.13, g.Kerchi Krymskoy oblasti.
(Respiration)
(Physiology--Audio-visual aide)

ZHABIN, M., mayor; MAYOROV, A., kapitan; ASTAPENKO, V., leytenant;
DOVGAL', I., mayor

"Individual evaluation," discussion of the article published in
No. 4. Voen. vest. 43 no.10:74-76 O '63. (MIRA 16:12)

ASTAPENKO, V. G.

ASTAPENKO, V. G. -- "The Prophylactic and Treatment of Postoperative Complications in Patients Suffering from Incipient Ear Disease (Thyrotoxicosis)." Minsk State Med Institute, Minsk, 1956. (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis' No 43, October 1955, Moscow

ASTAPENKO, V.G., assistant; ZHMUDIKOV, F.M., klinicheskiy ordinator

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Belor. 5 no.10:70-71 0 '59. (MIRA 13:2)

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P.N. Maslov) Minskogo meditsinskogo instituta.
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ASTAPENKO, V.G., kand.med.nauk

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P.N.Maslov) Minskogo meditsinskogo instituta.
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KAMANIN, Vladimir Ivanovich, dotsent, kand.voyenno-morskikh nauk;
ASTAPENKOV, I.G., inzh.-polkovnik, red.; MEDNIKOVA, A.N.,
tekhn.red.

[Use of radar in navigation] Ispol'zovanie radiolokatsii
dlia korablevozhdeniia. Moskva, Voen.izd-vo M-va obor.SSSR,
1960. 126 p. (MIRA 13:6)
(Radar in navigation)

PETROV, Igor' Nikolayevich; ASTAPENKOV, I.G., red.; MEDNIKOVA, A.N., tekhn.
red.

[Miniature radio devices] Miniatiurnye radioustroistva. Moskva,
Voen. izd-vo M-va obor. SSSR, 1961. 140 p. (MIRA 14:8)
(Radio--Equipment and supplies) (Miniature electronic equipment)

COMMON ELEMENTS										PROCESSING AND PROPERTIES INDEX										COMMON VARIABLES INDEX									
BC ASTM D 155, P. 1.																				B-I-3									
Determination of vapours of paraffin and spindle oil in air. P. V. ASTASHEVA, A. I. GORODTSE, and S. S. ZAKHINA (J. Appl. Chem. Russ., 1935, 8, 374—377).—Paraffin vapour in air is determined by passing a known vol. of air through 3 weighed Petrie tubes containing Et_2O, removing residual Et_2O by a current of pure air at 40°, and re-weighing the tubes. 90% is recovered in these conditions. R. T.																													
ASS-3LA METALLURGICAL LITERATURE CLASSIFICATION																													
COMMON SYMBOLS										COMMON SYMBOLS										COMMON SYMBOLS									
COMMON SYMBOLS										COMMON SYMBOLS										COMMON SYMBOLS									

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C/ Hydrochemical properties of underground waters associated with underground and overground peat deposits. P. V. Astapenya and Ts. A. Kogan (Sci. Research Unit, Inst. MHIK). Ventsi Akad. Nauk Belarus. S.S.R. 1954, No. 1, 177-80 (short report) (in Byelorussian).—Six different samples of peats and humus-contg. rocks, some of them taken as deep as 100 m. underground, were mixed 1:100 with several samples of waters contg. SO_4^{--} and NO_3^- and then kept under anaerobic conditions in the dark at 10–12° for 3–8 months. In all the water samples investigated the aints. of SO_4^{--} and NO_3^- ions greatly decreased; H_2S , not present in fresh waters, was found in varying aints. in all samples at the end of the expt. This indicates the presence of desulfatizing and nitrifying bacteria in peats and the humus-contg. rocks. It further explains the absence of SO_4^{--} and NO_3^- in the underground waters taken in several places in Byelorussia at the depths of 100 m. and more. The desulfatizing coeff., $(\text{SO}_4^{--})/(\text{SO}_4^{--} + \text{Cl}^-)$, of the underground waters which are assoc. with org. residues is (in av. of 40 different springs) 0.33, as compared with 0.67 for the waters not in touch with the org. residues. Thus, the coeff. larger than 0.6 can be used to differentiate the underground waters not assoc. from those assoc. with peat deposits or other org. residues in soil. E. Wierbicki.

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ASTAPOV, A., преподаvatel'

Deep-sea sounding with recording device and electron beam tube.
Mor. flot 20 no. 12:43 D '60. (MIRA 13:12)

1. Morekhnodnoye uchilishche Mersonskogo sovnarkhoza.
(Germany, East--Deep sea sounding)

ASTAPOV, A., prepdavatal'

Device for the determination of dangerous depths. Mor. flot
22 no.3:21 Mr '62. (MIRA 15:2)

1. Khersonskoye morekhodnoye uchilishche.
(Sounding and soundings)

ASTAPOV, B.M. (Leningrad)

Motor function of the gall bladder in the healthy individual following ingestion of butter; X-ray observation. Vrach.delo no.3:245-247 Mr '60. (MIRA 13:6)

1. Kafedra gosptital'noy terapii No.2 (nachal'nik - prof. Z.M. Volynskiy) Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(GALL BLADDER) (BUTTER--PHYSIOLOGICAL EFFECT)